	Application No. 08/852,666	Applicant(s) CHADA ET AL.	
Notice of Allewshills			
Notice of Allowability	Examiner	Art Unit	
	Chih-Min Kam	1653	
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERI herewith (or previously mailed), a Notice of Allowance (PTO NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CFR	TS IS (OR REMAINS) CLOSED in DL-85) or other appropriate communication is second to the communication in the communication is second to the communication in the communication is second to the communication in the communication in the communication is second to the communication in	this application. If not inclu inication will be mailed in du	ıded ıe course. THIS
1. This communication is responsive to 9/30/03.			
2. \(\times \) The allowed claim(s) is/are $\frac{56-62}{}$.			
3. The drawings filed on are accepted by the Ex	aminer.		
 4. ☐ Acknowledgment is made of a claim for foreign prior a) ☐ All b) ☐ Some* c) ☐ None of the: 		(f).	
 Certified copies of the priority document 	s have been received.		
2. Certified copies of the priority document	s have been received in Applicatio	n No	
 Copies of the certified copies of the prio International Bureau (PCT Rule 17.2 	· •	l in this national stage appli	cation from the
* Certified copies not received:			
5. \square Acknowledgment is made of a claim for domestic pri	ority under 35 U.S.C. § 119(e) (to a	a provisional application).	
(a) The translation of the foreign language provis			
6. Acknowledgment is made of a claim for domestic pri	ority under 35 U.S.C. §§ 120 and/o	r 121.	
Applicant has THREE MONTHS FROM THE "MAILING DA below. Failure to timely comply will result in ABANDONME			
7. A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) which give			r NOTICE OF
8. CORRECTED DRAWINGS must be submitted.			
(a) ⊠ including changes required by the Notice of Dra	aftsperson's Patent Drawing Review	v (PTO-948) attached	
1) ☐ hereto or 2) ☒ to Paper No. 43.	,	,	
(b) ☐ including changes required by the proposed dra	awing correction filed, whic	h has been approved by the	Examiner.
(c) including changes required by the attached Exa		• • • • • • • • • • • • • • • • • • • •	
Identifying indicia such as the application number (see 37 each sheet.	CFR 1.84(c)) should be written on th	ne drawings in the front (not t	he back) of
9. DEPOSIT OF and/or INFORMATION about the attached Examiner's comment regarding REQUIREMENT I	deposit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIOLOGIC	ERIAL must be submitted CAL MATERIAL.	. Note the
Attachment(s)			
 1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-90) 5 ☐ Information Disclosure Statements (PTO-1449), Paper 7 ☐ Examiner's Comment Regarding Requirement for Deprof Biological Material 	948) 4⊠ Interview No 6⊠ Examine psit 8□ Examine	Informal Patent Application Summary (PTO-413), Paper's Amendment/Comment r's Statement of Reasons for	er No. <u>1203</u> . er Allowance
	OUPE	CHRISTOPHER S. F. LOW RVISORY PATENT EXAMINER CHNOLOGY CENTER 1800	

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An **Examiner's Amendment** to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Lauren Sliger on December 18, 2003.

Examiner's Amendments to the Specification:

1. Please replace the first paragraph after "BACKGROUND OF THE INVENTION" at page 1 of the specification with the following paragraph:

This application is a continuation-in-part of application serial no. 08/679,529, filed 12 July 1996, now U. S. Patent 6,171,779.

2. Add the Abstract on a separate sheet.

Abstract

The present invention relates to HMGI genes and proteins and methods using the same. Embodiments of the invention pertain to methods for treating obesity, methods for treating a tumor, methods for producing a transgenic non-human mammal, methods for screening candidate compounds capable of inhibiting the biological activity of normal HMGI genes or proteins, and methods for detecting the presence of a tumor.

Examiner's Amendments to the Claims:

Claims 55, 56, 57 and 60 have been amended as follows:

55. (Twice amended) A method for screening a candidate compound [capable of modulating] for inhibiting high mobility group protein I (HMGI) biological activity comprising the steps of:

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(a) immobilizing an HMGI protein, or a fragment thereof, on a solid surface, wherein the fragment includes a biologically active region of the HMGI protein;

(b) incubating the HMGI protein, or the fragment thereof, with a candidate compound under conditions which promote optimal interaction;

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- (c) identifying [whether] the candidate compound that binds [to] the HMGI protein, or the fragment thereof; and
- (d) [if the candidate compound does bind, further] determining whether the candidate compound from step (c) [modulates] inhibits HMGI biological activity [of regulating expression of downstream target gene interferon-β from the ability of the candidate compound to bind to the HMGI protein, or the fragment thereof], and identifying the candidate compound that inhibits HMGI biological activity, wherein the biological activity of HMGI is to regulate expression of downstream target gene interferon-β.
- 56. (Currently amended) A method for screening a candidate compound [capable of] for inhibiting HMGI biological activity comprising the steps of:
 - (a) immobilizing an HMGI protein on a solid surface;
 - (b) incubating the HMGI protein with a candidate compound under conditions which promote optimal interaction;
 - (c) identifying [whether] the candidate compound that binds [to] the HMGI protein; and
 - (d) [if the candidate compound does bind, further] determining whether the candidate compound inhibits HMGI biological activity [of regulating expression of downstream

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target gene interferon-β from the ability of the candidate compound to bind to the HMGI protein], and identifying the candidate compound that inhibits HMGI biological activity; wherein the biological activity of HMGI is to regulate expression of downstream target gene interferon-β.

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- 57. (Currently amended) A method for screening a candidate compound [capable of] for inhibiting HMGI biological activity [which comprises] comprising the steps of:
 - (a) immobilizing an HMGI protein on a solid surface;
 - (b) incubating the HMGI protein with a candidate compound under conditions which promote optimal interaction;
 - (c) identifying [whether] the candidate compound that binds [to] the HMGI protein;
 - (d) transfecting into a cell a DNA construct which contains a reporter gene under the control of an HMGI protein-regulated promoter;
 - (e) administering to the cell the candidate compound from step (c);
 - (f) measuring the level of reporter gene expression in the presence and absence of the compound, and identifying the candidate compound that causes the decreased level of reporter gene expression; and
 - (g) determining [from the level of reporter gene expression whether] the candidate compound from step (f) that inhibits the HMGI biological activity [of regulating expression of downstream target gene interferon-β];

wherein the biological activity of HMGI is to regulate expression of downstream target gene interferon- β .

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60. (Currently amended) A method for screening a candidate compound [capable of] for inhibiting HMGI biological activity [which comprises] comprising the steps of:

- (a) immobilizing an HMGI protein, or a fragment thereof on a solid surface, wherein the fragment includes a biologically active region of the HMGI protein;
 - (b) incubating the HMGI protein, or the fragment thereof, with the candidate compound under conditions which promote optimal interaction;
 - (c) identifying [whether] the candidate compound that binds [to] the HMGI protein, or the fragment thereof;
 - (d) transfecting into a cell a DNA construct which contains a reporter gene under the control of an HMGI protein-regulated promoter;
 - (e) administering to the cell the candidate compound from step (c);
 - (f) measuring the level of reporter gene expression in the presence and absence of the compound, and identifying the candidate compound that causes the decreased level of reporter gene expression; and
 - (g) determining [from the levels of reporter gene expression whether] the candidate compound from step (f) that inhibits the HMGI biological activity [of regulating expression of downstream target gene interferon-β]; wherein the biological activity of HMGI is to regulate expression of downstream target

wherein the biological activity of HMGI is to regulate expression of downstream target gene interferon- β .

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Min Kam whose telephone number is (703) 308-9437. The examiner can normally be reached on 8.00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low can be reached on (703) 308-2923. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 308-4227 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Chih-Min Kam, Ph. D. CMK Patent Examiner

December 18, 2003

CHRISTOPHER S. F. LOW SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1800